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5/120/62/000/004/010/047 E032/E514

24.6730

AUTHORS:

Vladimirskiy, V.V., Kobozav, A.S., Marfenko, S.V., Pevnev, A.K., Porubity, N.I. and Tarasov, Ye.K.

Effect of the deformation of the foundations on the

orbit of protons in a synchrotron TITLE

Pribory i tekhnika eksperimenta, no.4, 1962, 60-69

PERIODICAL: Unavoidable displacements of the ground in the

vertical and horizontal directions due to seasonal variations in the temperature, humidity and so on, may give rise to relative displacements in the position of magnet sections, which in turn may produce forced oscillations of the proton beam. In the 7 GeV proton synchrotron of the GKAE the magnet is supported by a continuous solid ring which is in principle similar to that. The reinforced-concrete ring which supports the magnet lies directly on the ground which consists of soft employed at CERN. morainic deposits. The relatively small dimensions of the ring (R = 40 m) ensured that it could be made sufficiently rigid and thereby minimise the effect of nonuniform settling of the ground on the orbit. The ring was placed at a depth of 5 m. A theoretical Card 1/3

APPROVED FOR RELEASE: 09/18/2001 CIA-RDP86-00513R000723410014-9" Effect of the deformation of the ... 5/120/62/000/004/010/047 E032/E514

analysis is now given of the strength of the ring foundation by developing the displacement of the axis of the accelerator chamber due to deformation of the foundations into a Fourier series. Owing to the rigidity of the magnet sections and the small distance between neighbouring sections, the position of all the sections can be specified with sufficient accuracy by the coordinates of 112 points. The fourier series, therefore, contain a finite number of terms. For each harmonic of the deformation one can then calculate the amplitude of the corresponding periodic orbits. Numerical calculations showed that the 13th, 43rd and neighbouring harmonics were the most dangerous. The mathematical analysis is facilitated by the fact that a mathematical solution is available for the problem of mechanical vibrations of an elastic ring (Love, Mathematical Theory of In their final form the foundations were in the Elasticity). shape of a continuous reinforced-concrete bolt of square crosssection having a length of 250 m, height 5 m and width 5 m with a nett load of about 16 tons per running metre. The belt contains two circular cable tunnels (1.25 x 1.95 m2). The analytical Card 2/3

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calculations and the design data were then tested experimentally by observations of the position of 28 markers attached to the foundations. Vertical and radial variations for the period 1959/62 are reported in the form of graphs, from which it is concluded that the maximum departure of the orbit from the axis of the chamber, due to the deformation of the foundations, did not exceed 1.5 mm. The amplitude of the deformations of the foundations was of the same order of magnitude (about 1 mm).

There are 2 figures and 2 tables.

ASSOCIATION:

Institut teoreticheskoy i eksperimental'noy

fiziki GKAE

(Institute of Theoretical and Experimental Physics

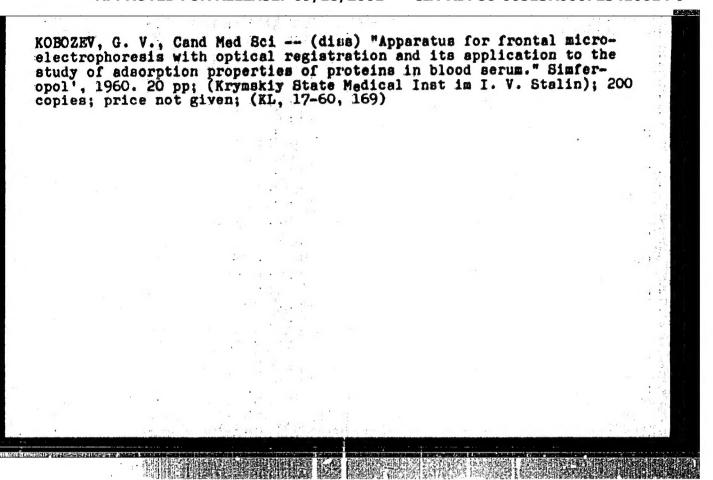
GKAE)

SUBMITTED:

March 31, 1962

Card 3/3

APPROVED FOR RELEASE: 09/18/2001 CIA-RDP86-00513R000723410014-9"



TROITSKIY, G.V.; KOBOZEV, G.V.

Design of precision spectropolarimeters used for protein studies. Biokhimia 28 no.61992-998 N-D'63 (MIRA 17:1)

1. Chair of Biological Chemistry, Medical Institute, Simferopoli.

ACHE SEL & L USER/Medicine - Pathophysiology

FD-2561

Card 1/1

Pub. 17-14/23

Author

: Meyerson, F. Z.; Kobozev, G. V.

Title

: On a method for forming an experimental stenosis of the sorta

Periodical

: Byul. eksp. biol. 1 med. 5, 50-52, May 1955

Abstract

Describes a method for forming an experimental stenosis of the aorta in rabbits which permits the following: constriction of the aorta following an appreciable interval of time after the operation, gradual constriction of the sorta, and removal of the ligature after a period of constriction of the aorta without requiring a second operation. Diagrams. Three references, two of them USER (since 1940).

Institution

: Central Scientific Research Institute of Physical Methods for Therapy imeni I. M. Sechenov (Director O. V. Glebova), Yalta

Submitted

: July 22, 1954 by Academician A. D. Speranskiy

Ebezero, W. F.

MOCAPRED TO RESIDENCE NO9/18/2001 CIA-RDP86-00513R000723410014-

Integral graded salivograph. Eh. vys. nerv. deiat. 5 no.6:912-915 H-D 'SS, (MIRA 9:3)

1.Institut fizicheskikh metodov lecheniya imeni. I.M. Sechenova, Yalta.

(SALIVATION, registration with integral graded salivograph)

METERSON, P.Z.; KOBOZHY, G.Y.

Method of producing experimental stenosis of the aorta. Biul.eksp. biol.i med. 39 no.5:50-52 My *55. (MIRA 8:7)

1. Is TSentral'nogo nauchno-issledovatel'skogo insitut fisicheskikh metodov lecheniya imeni I.M.Sechenova (dir. O.Y.Glebova), Yalta.

Predstavlena akademikom A.D.Spernnskim.

(ACRTIC, YALVE, stenosis,

exper., technic of prod.)

A 6-156 & 6 V 6 V.

KO307EV. G.V.

Use of mechanical coulometer in protein electrophoresis [with summary in English]. Ucr. biokhim. shur. 29 no.3:375-382 '57.

(ALRA 10:9)

1. Kefedra biokhimii Krymskogo meditsinskogo instituta,

g. Sinferopol'.
(VOLTAMETER)

(Riectacohours is)

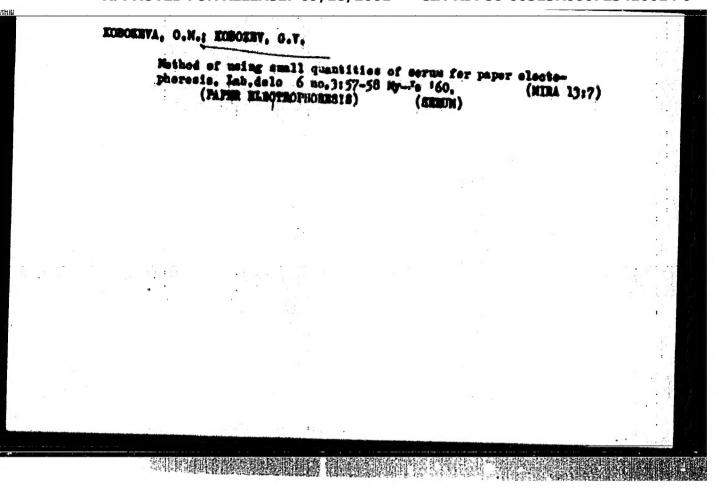
(PROPEINS - ANALYSIS)

TROITSKIT. 0.7. 1080ZEV. 0.7. 18/2001 CIA-RDP86-00513R000723410014-9

Further improvement of the apparatus for protein electrophoresis [with summary in English]. Biokhimiia 23 no.6:869-878 E-D '58 (NIRA 11:12)

1. Kafedra biologicheskoy khimii Krymskogo meditsinskogo instituta Simferopoli.

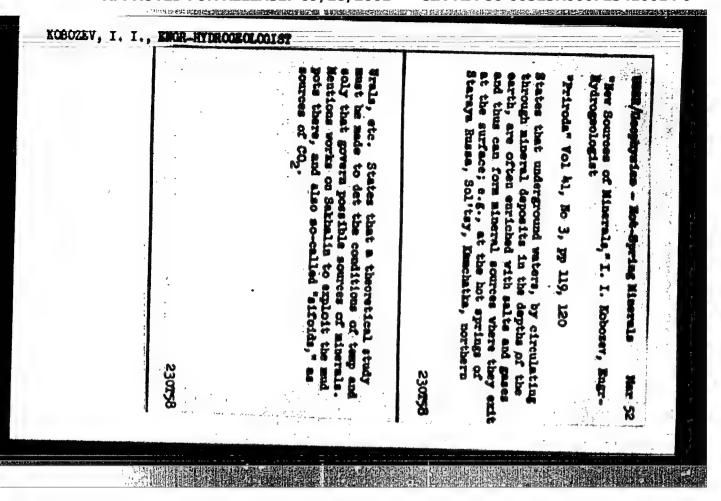
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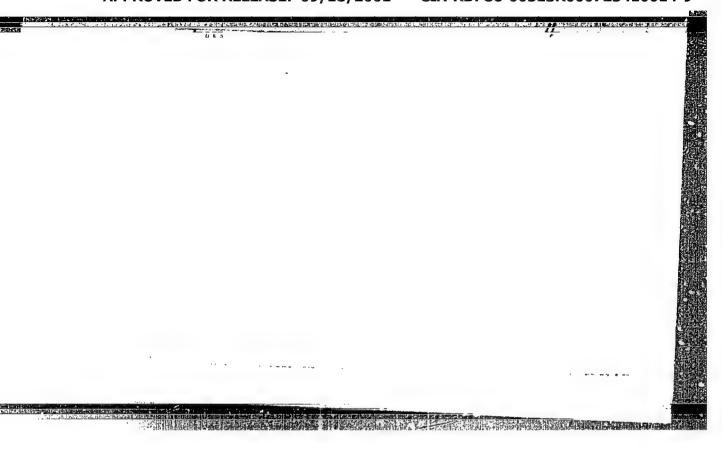


KOBOZEV, G. V., (USSR)

"A Cuvette for Frontal Electrophoresis, made of Organic Class with Cooling."

Report presented at the 5th Int¹1. Biochemistry Congress, Moscow, 10-16 Aug 1961.





KOBOZEV, I.

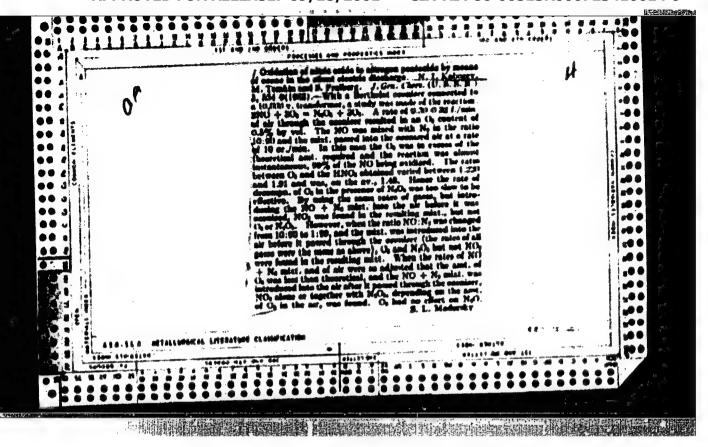
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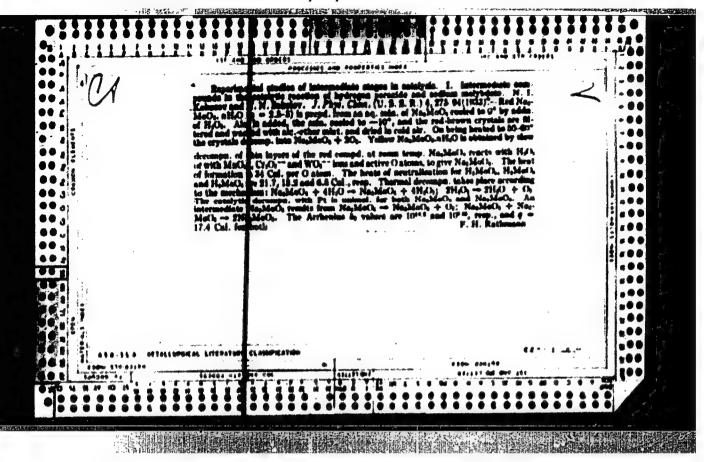
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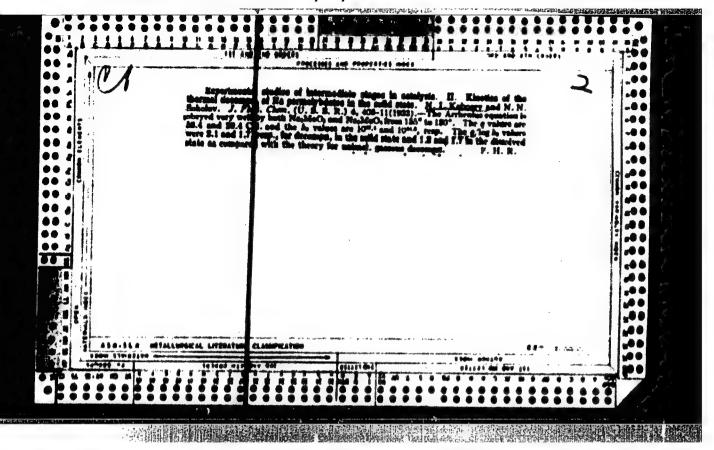
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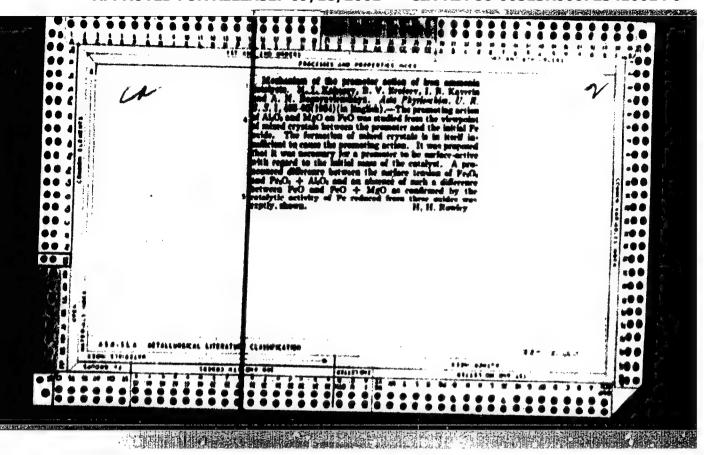
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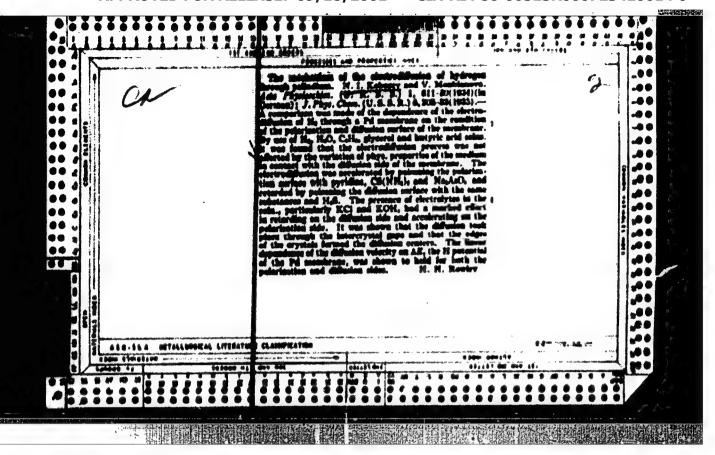
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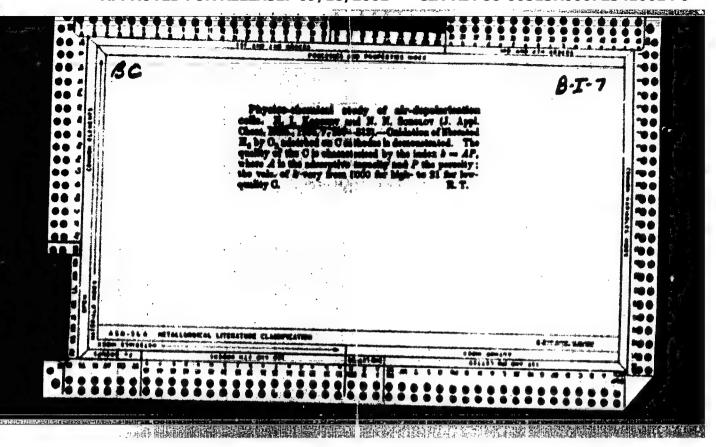


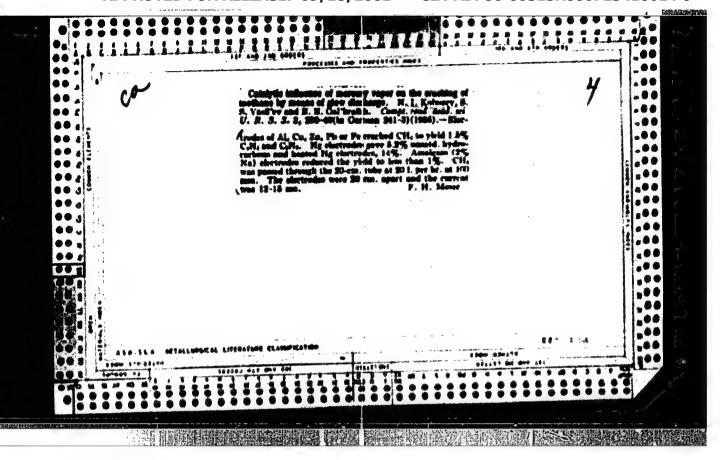


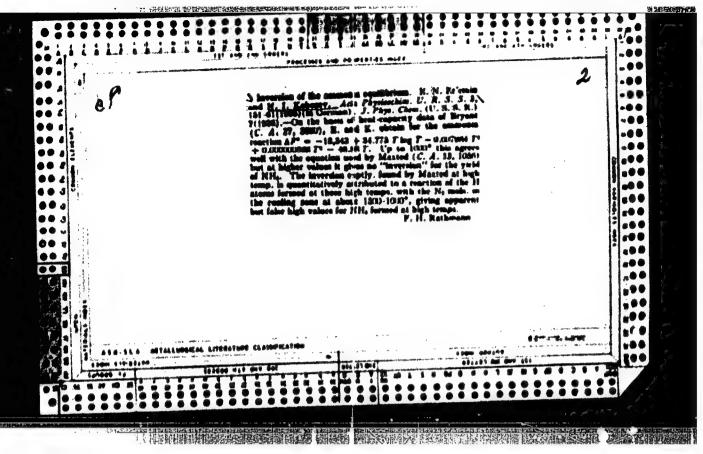


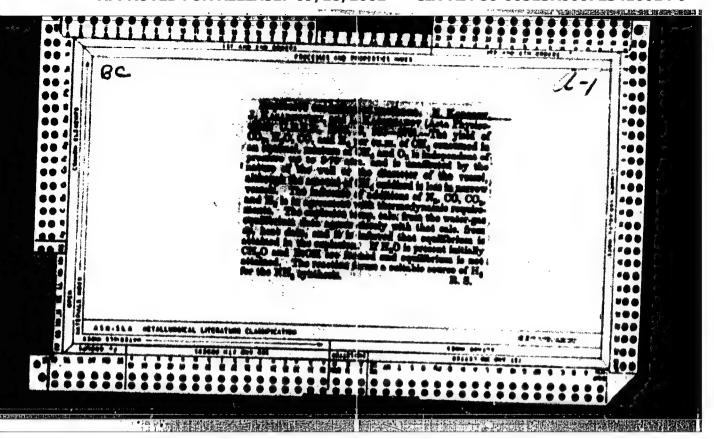


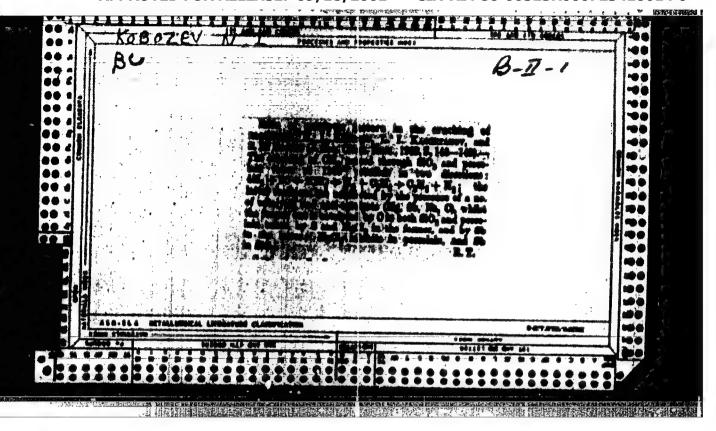


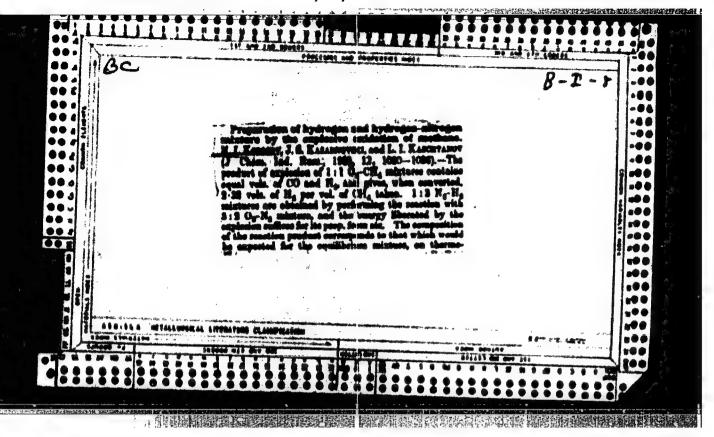


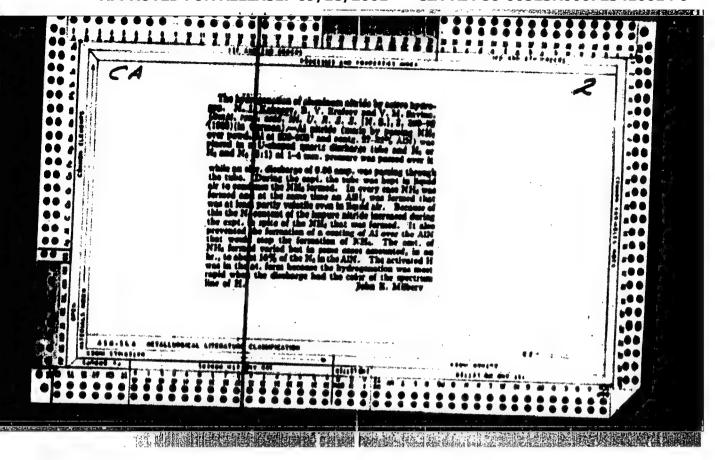


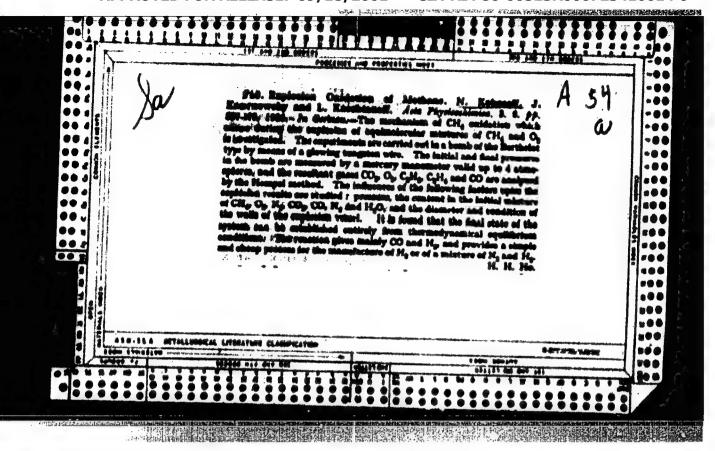


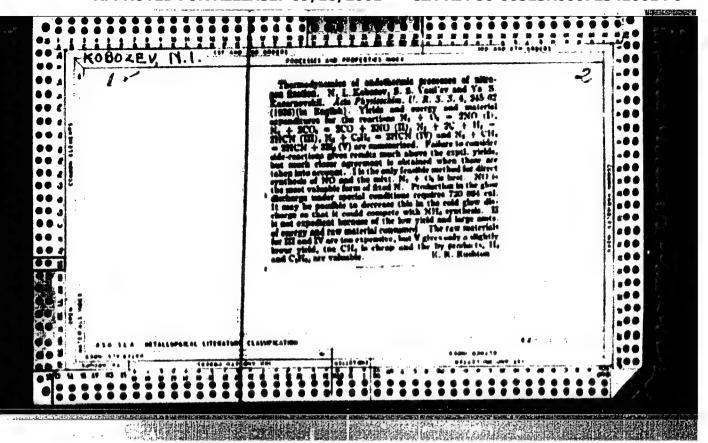


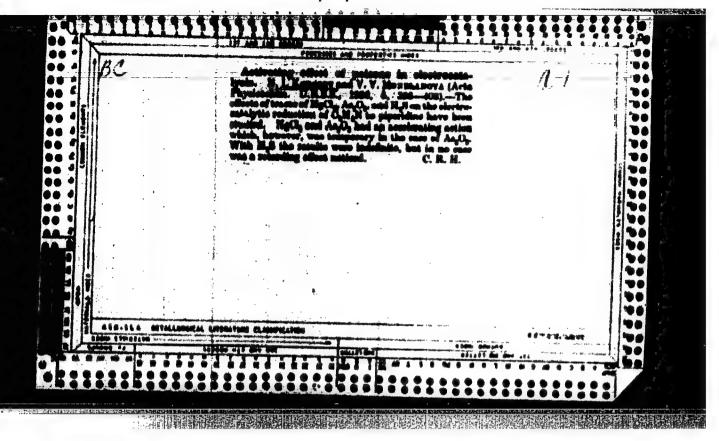


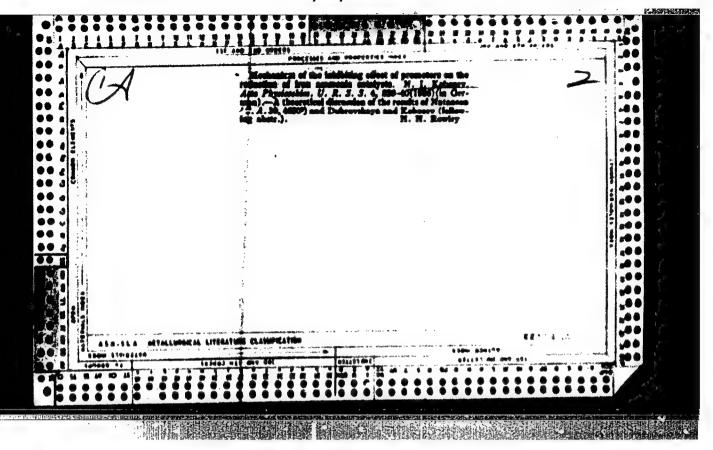


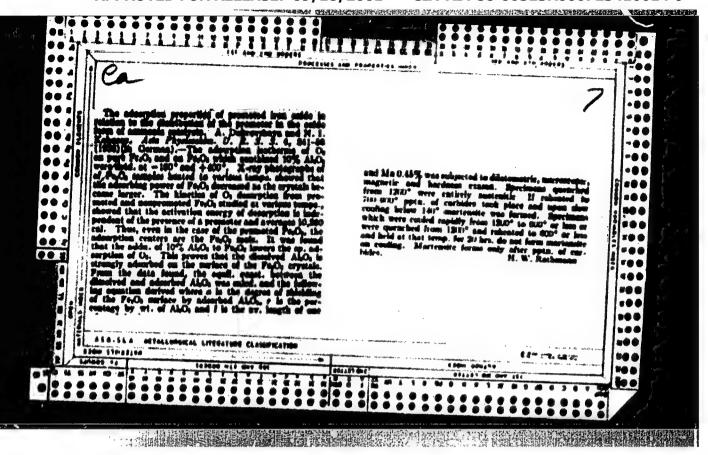


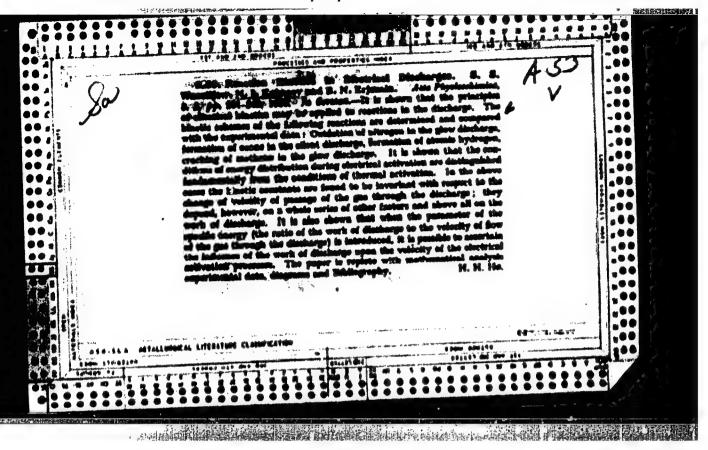


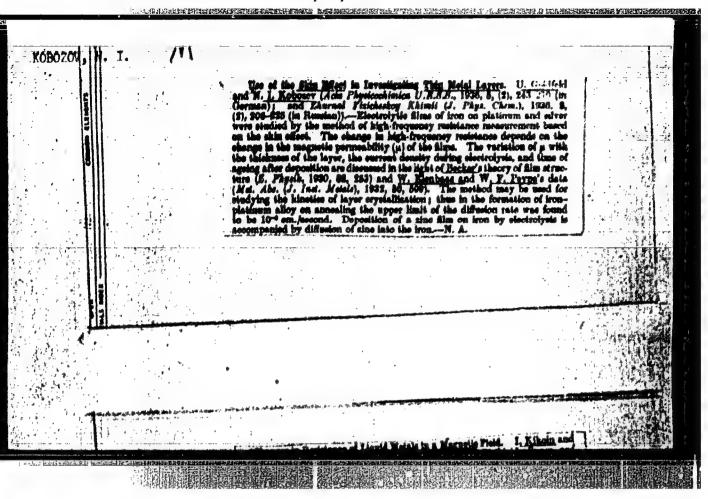


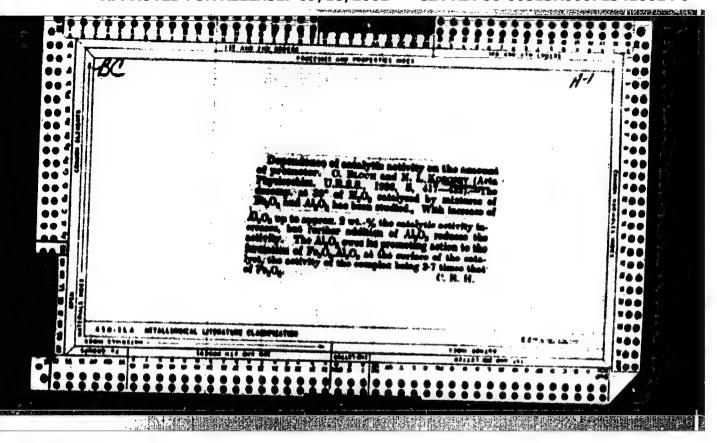


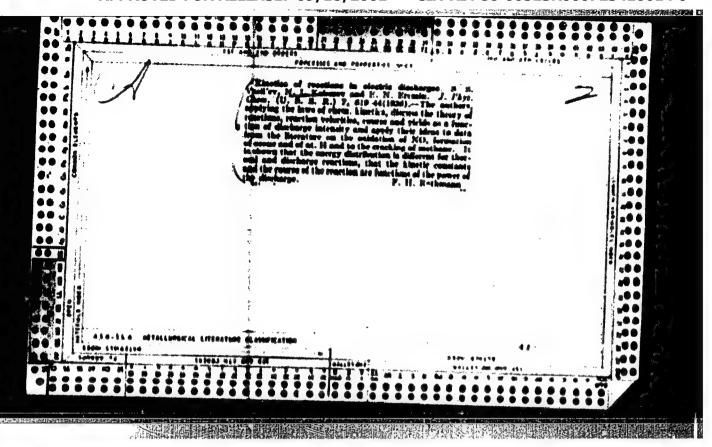


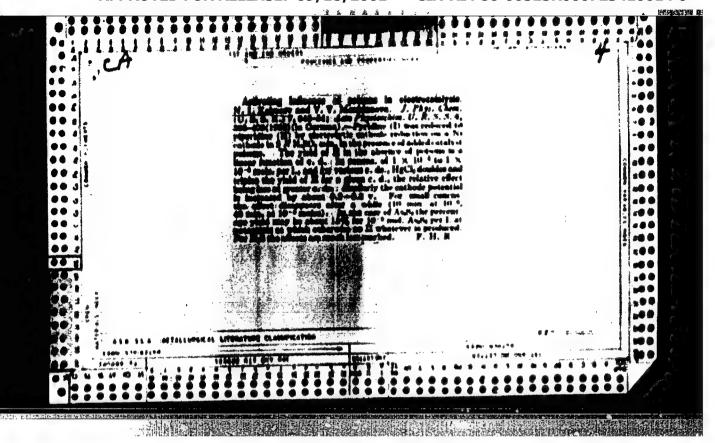




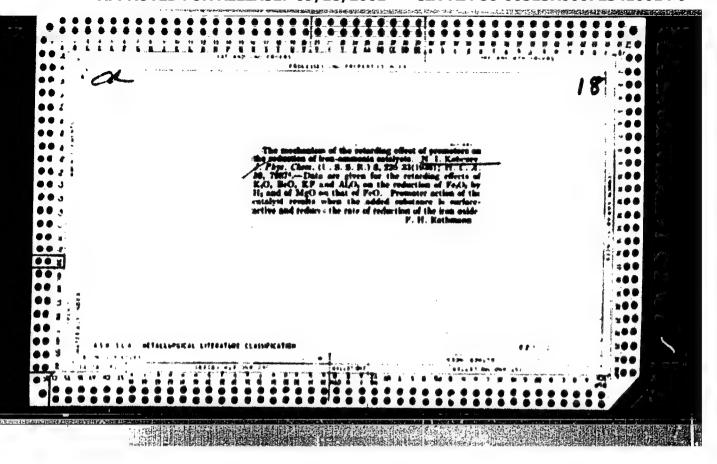


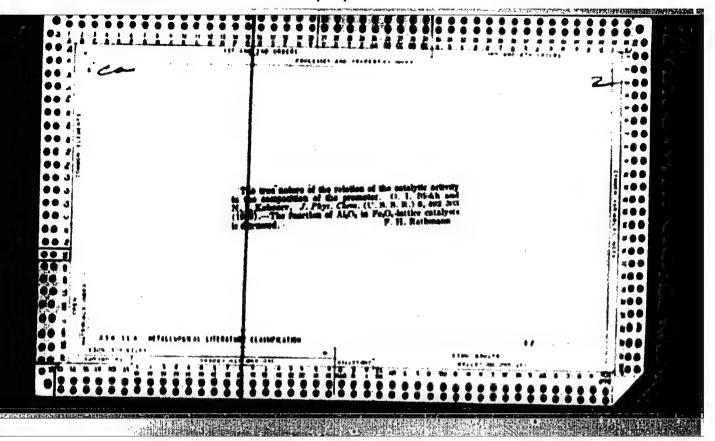


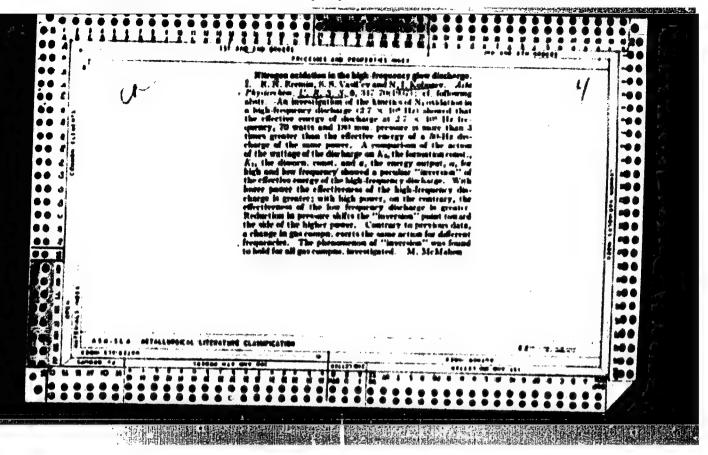


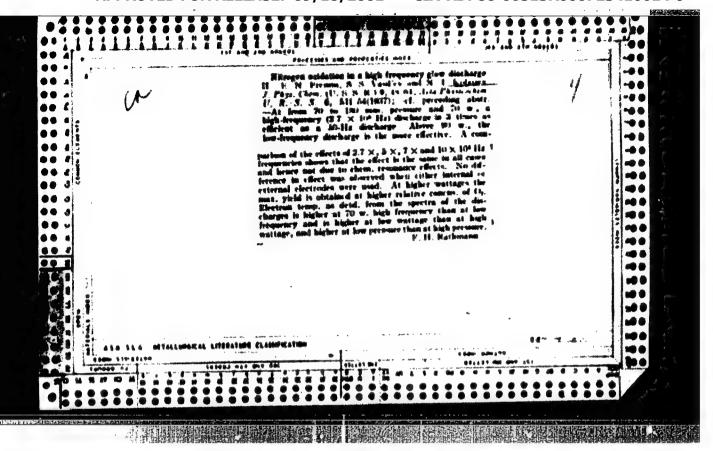


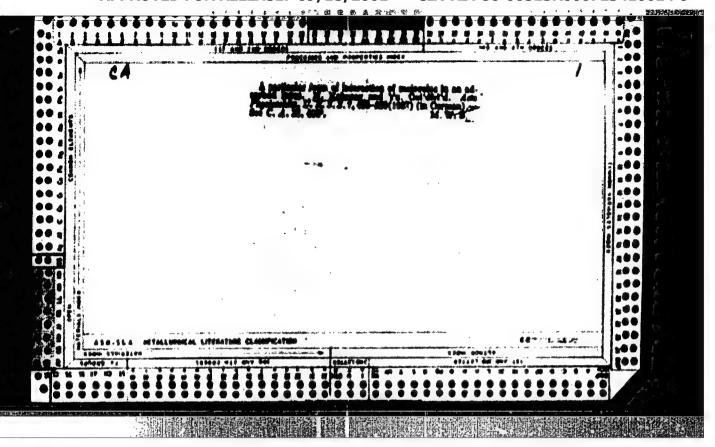
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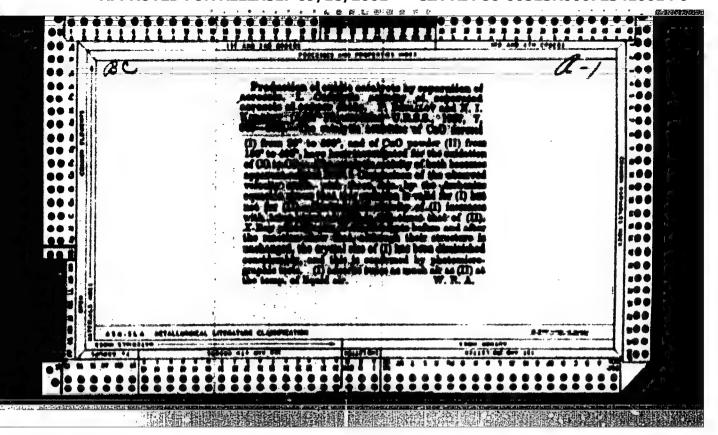


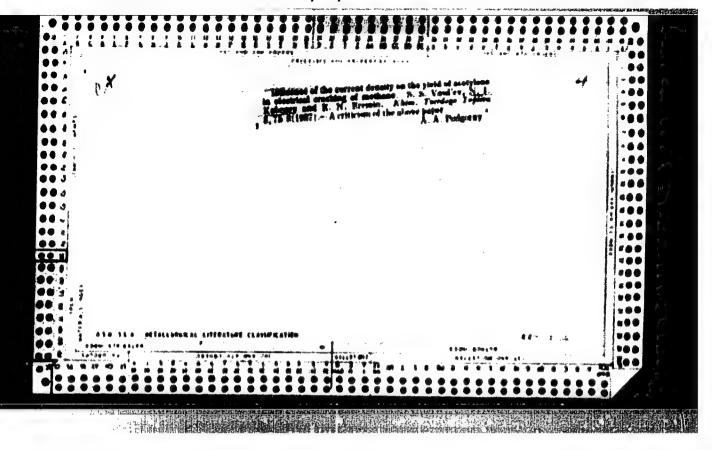


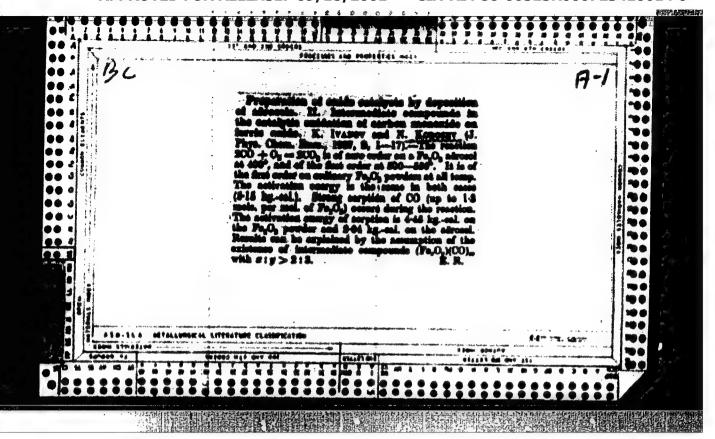




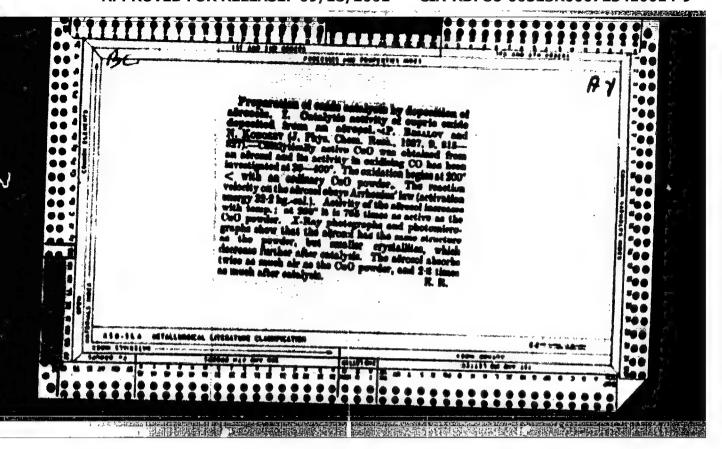


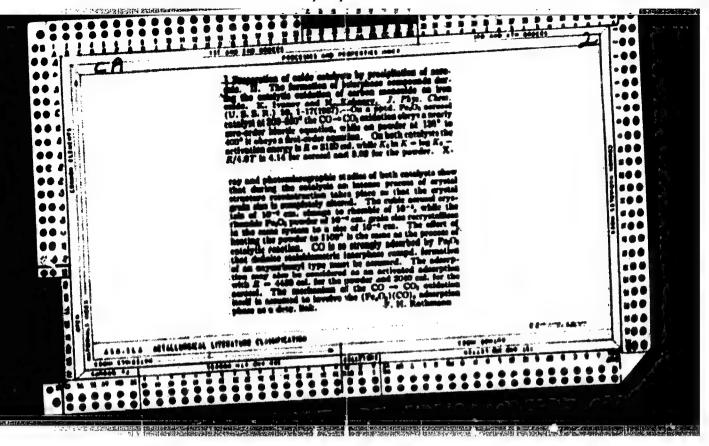


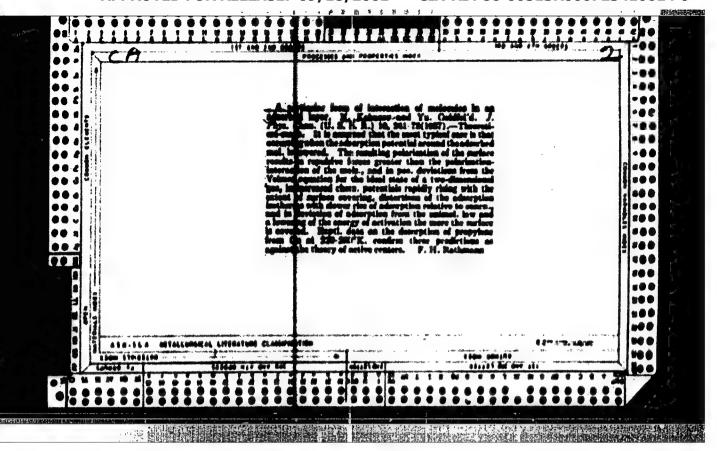


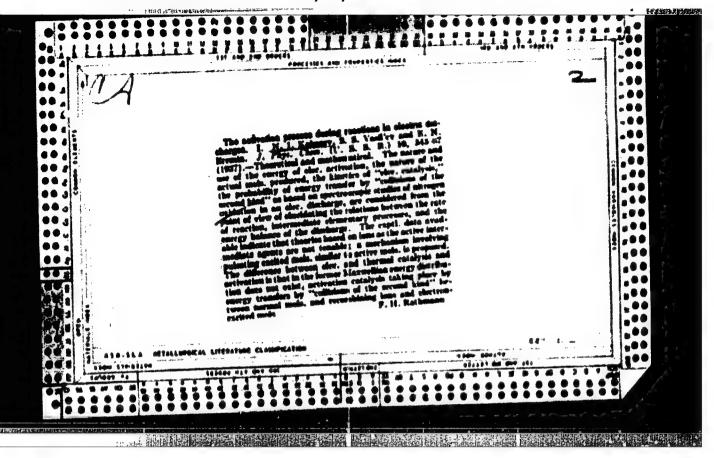


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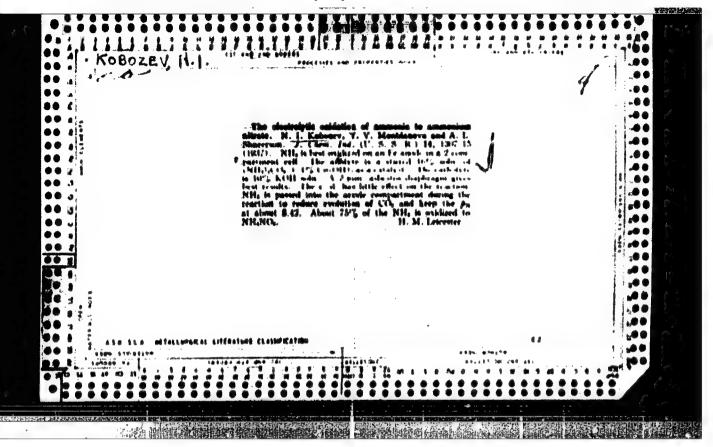


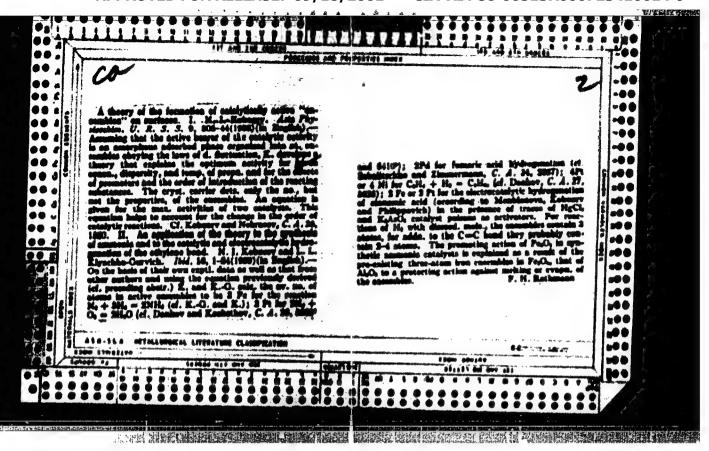


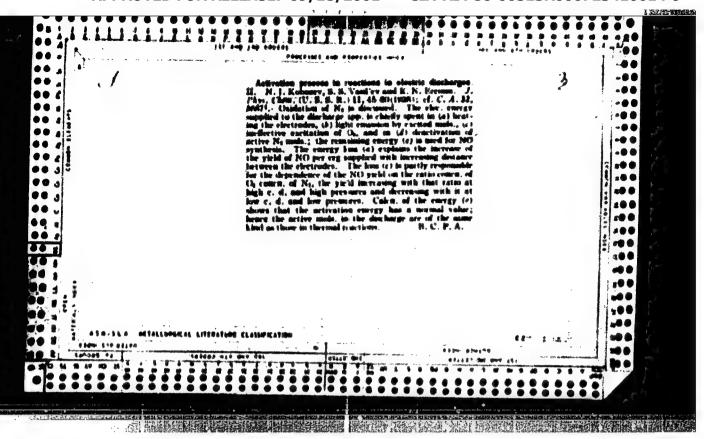


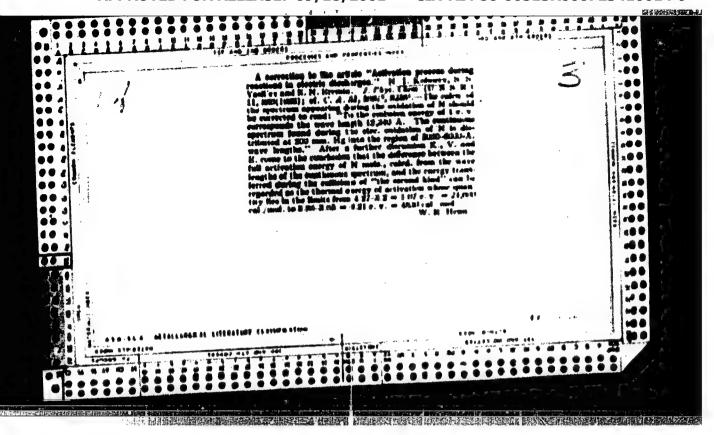


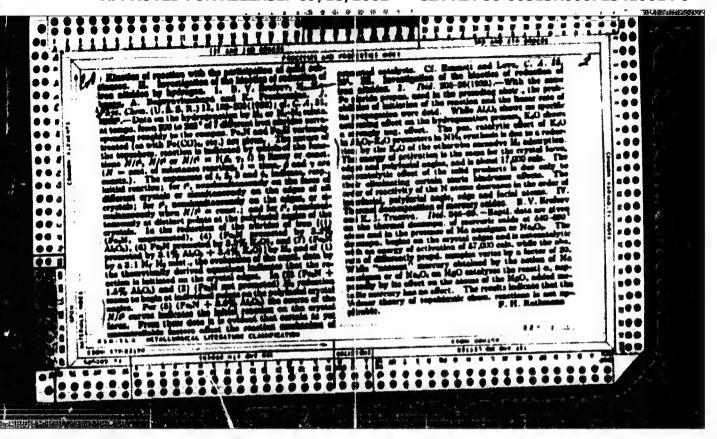
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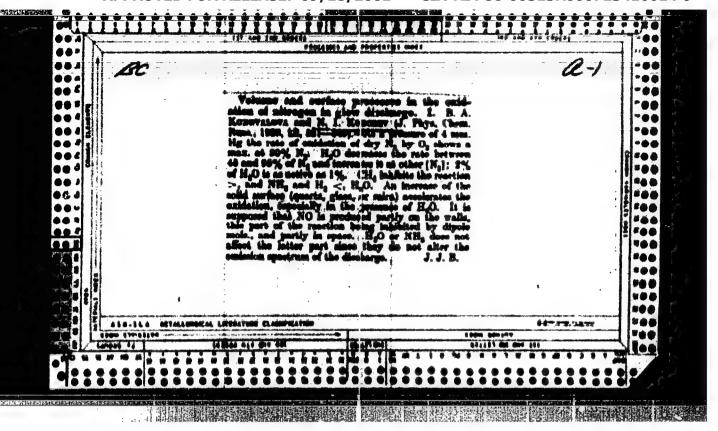


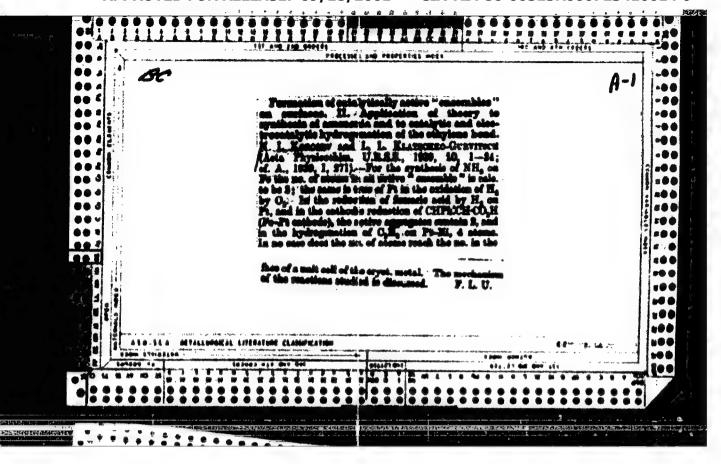


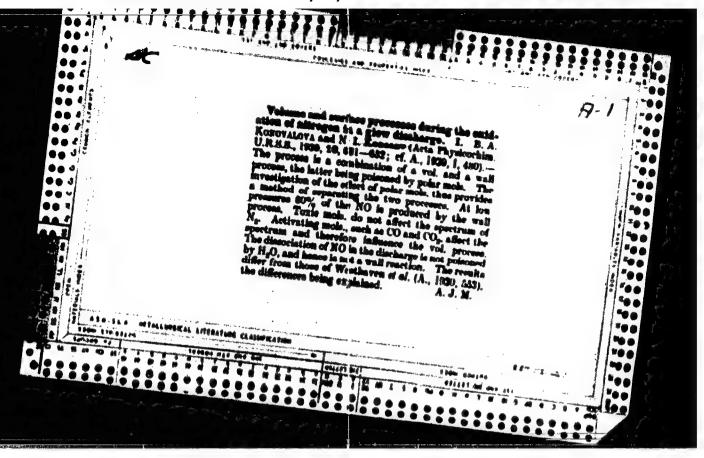


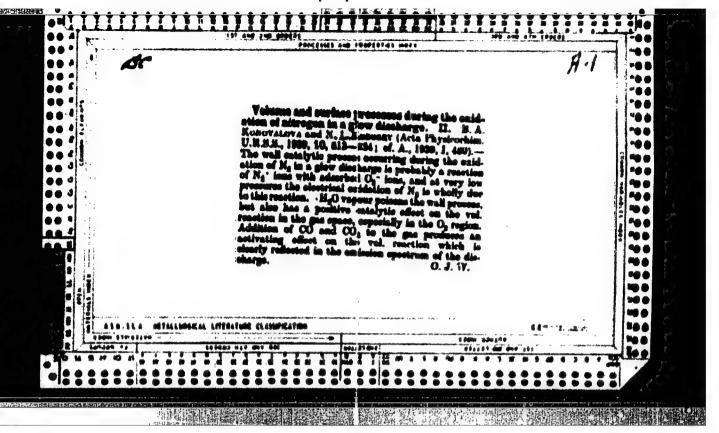


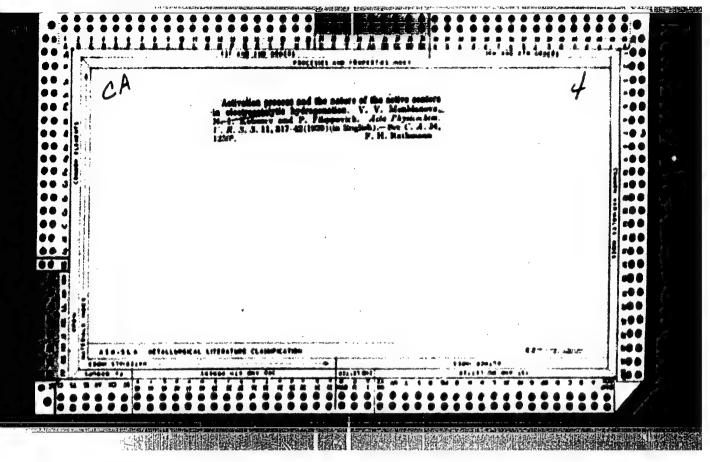






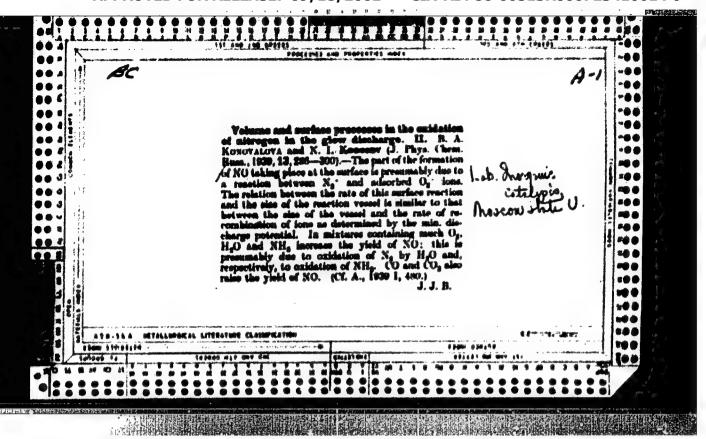


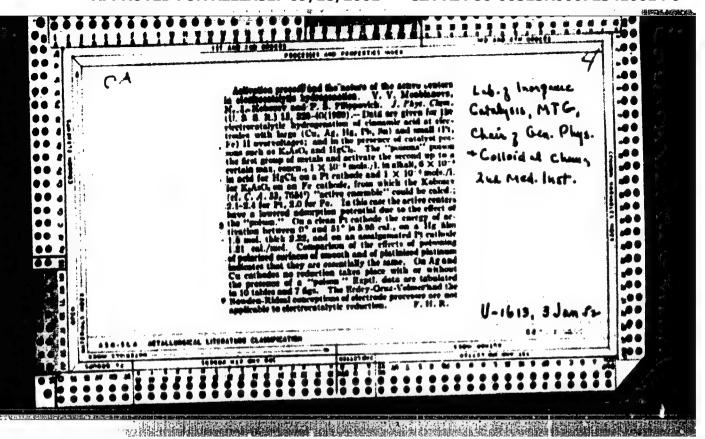


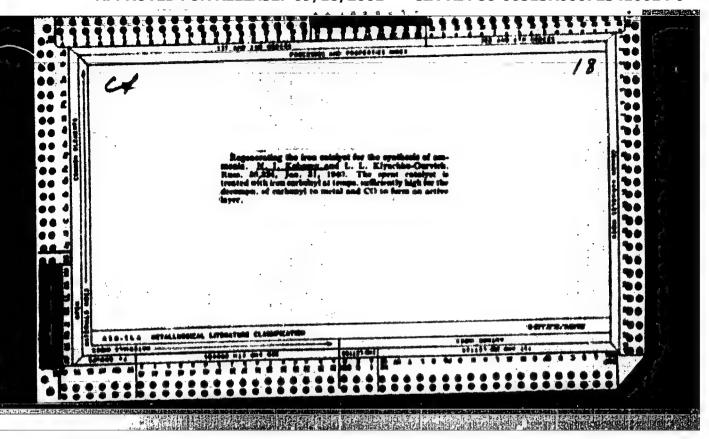


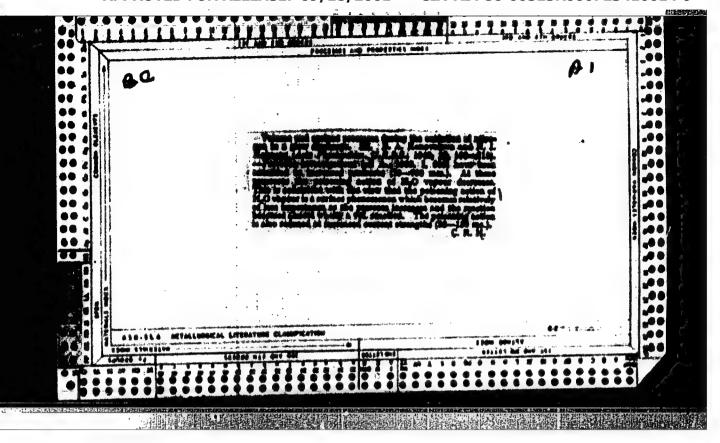
"A Theory of the Formation of Catalytic Retive Groupings on Surfaces -- II. The Application of the Theory to the Synthesis of Amonia and the Catalytic and Electrocatalytic Hydrogenation of the Ethylene Bond"; Zhur. Fiz Khim., 12, No. 1, 1939. Moscow State University, Laboratory of Inorganic Catalysis. Red. 29 May 1938.

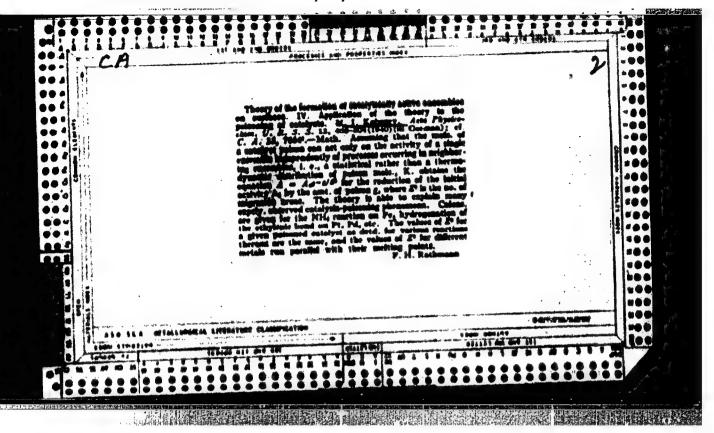
Report U-1613, 3 Jan. 1952



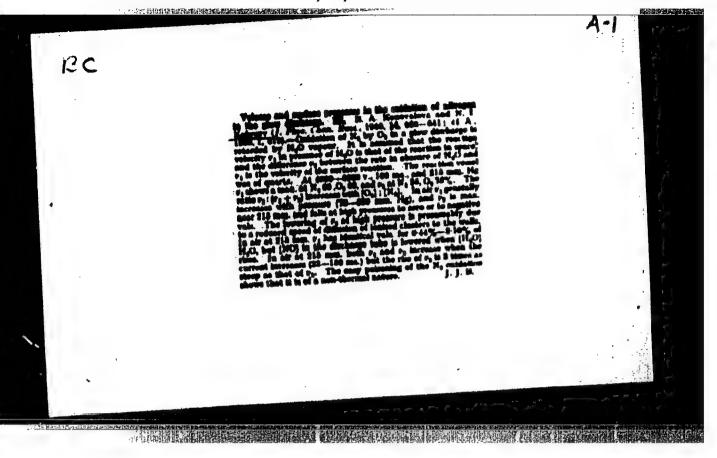


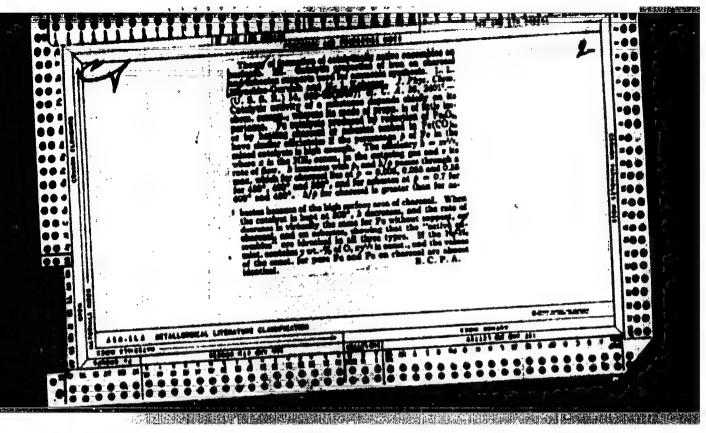


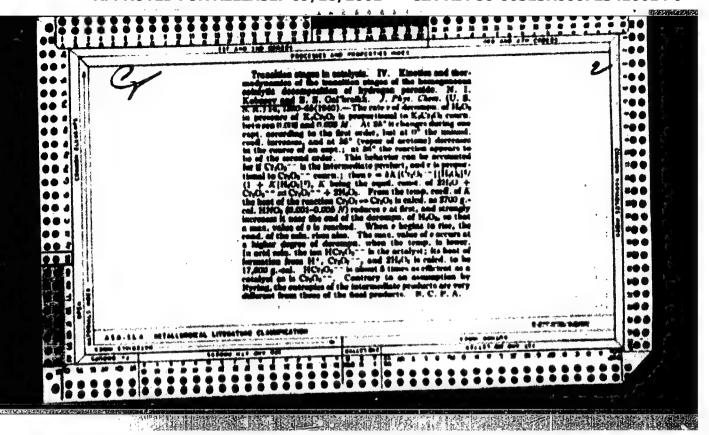


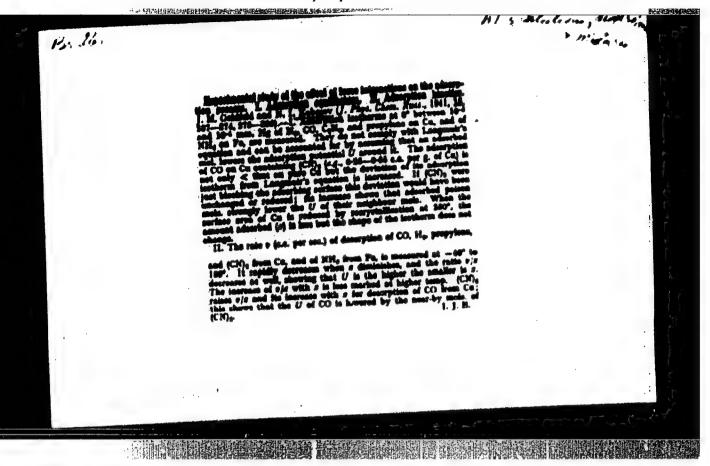


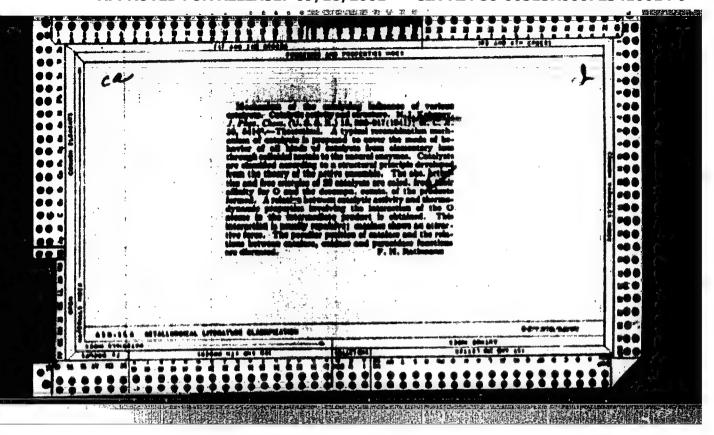
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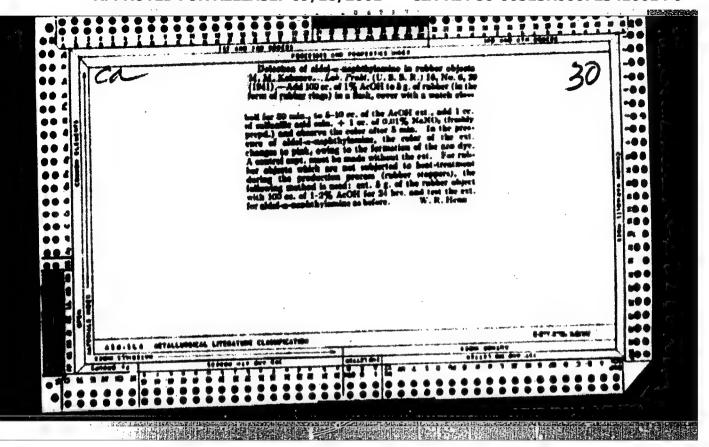


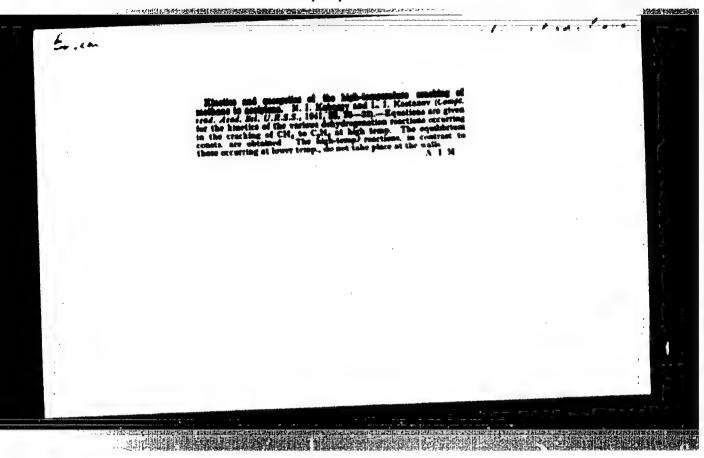


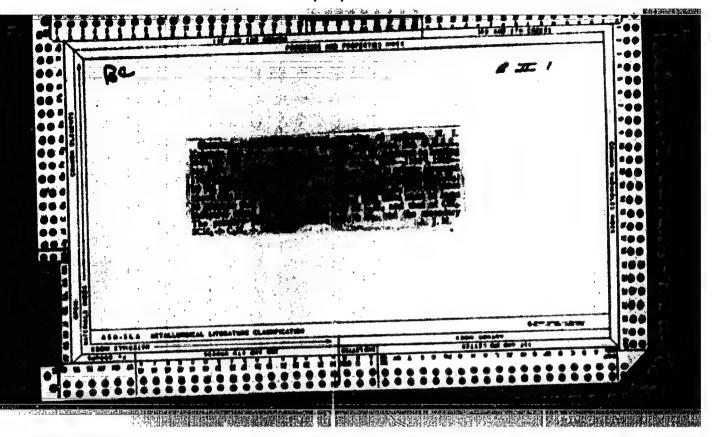


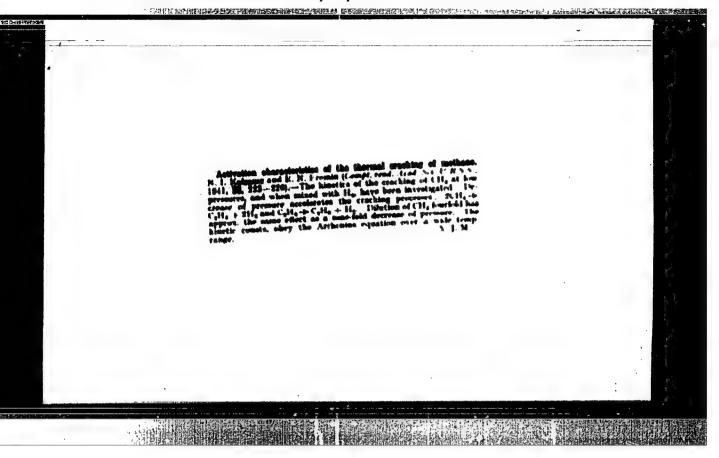




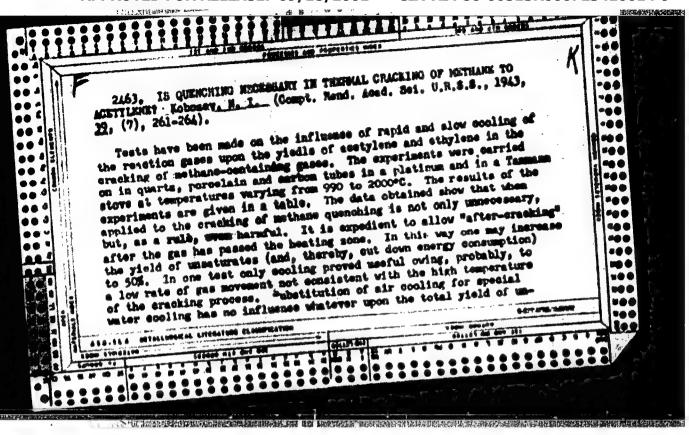


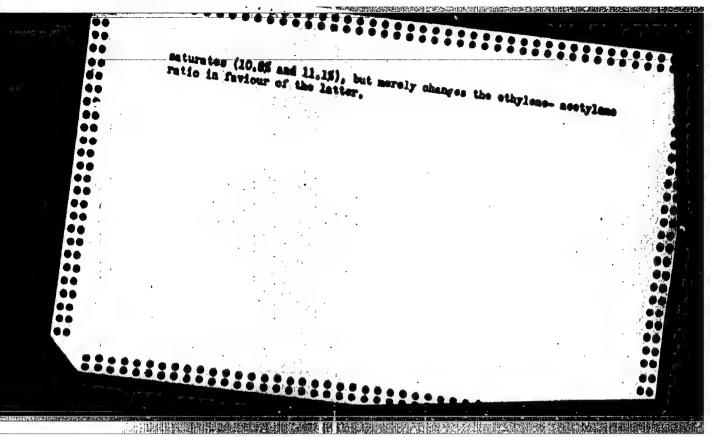


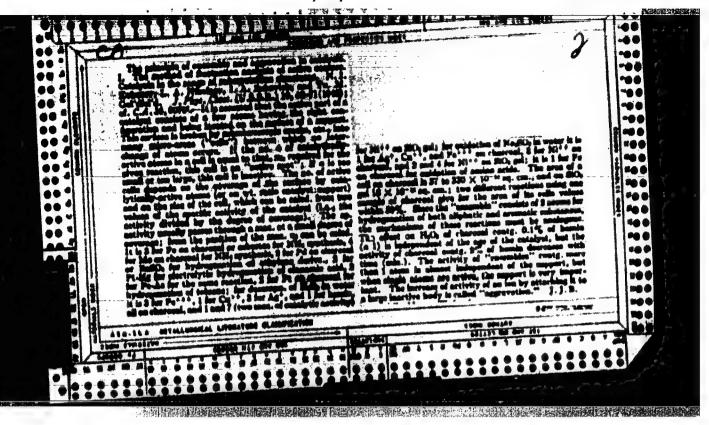


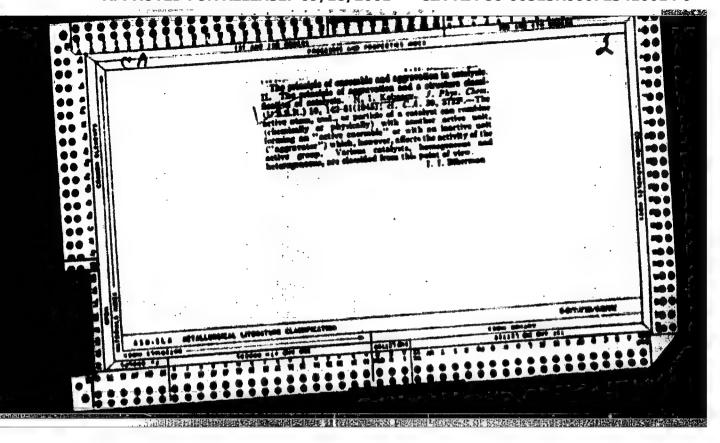


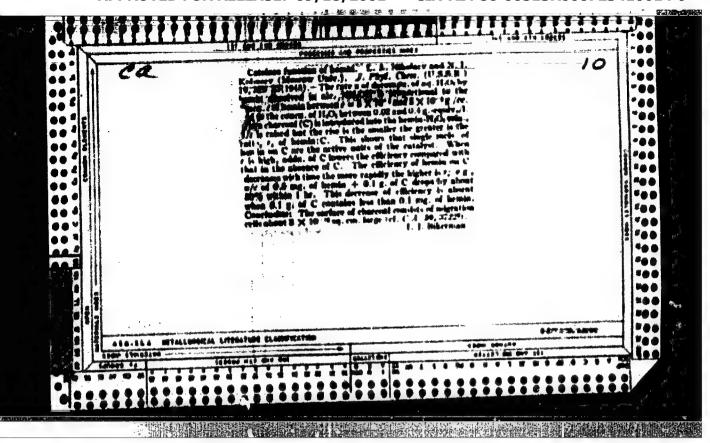
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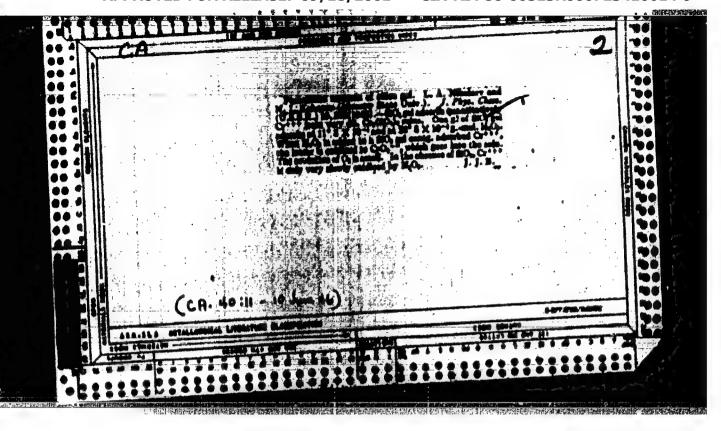


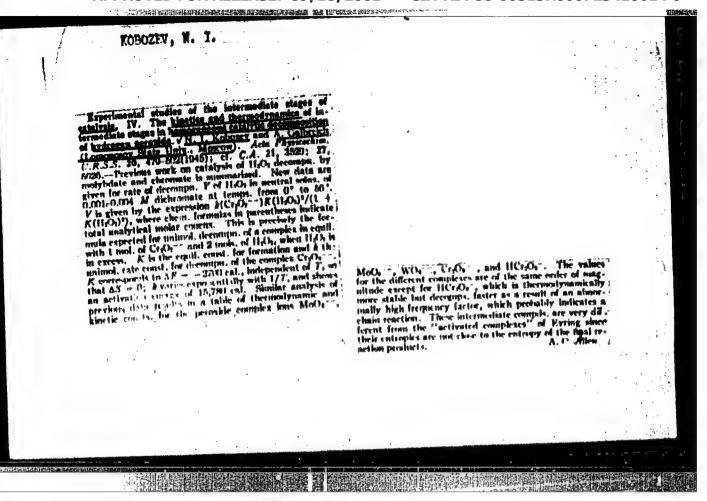


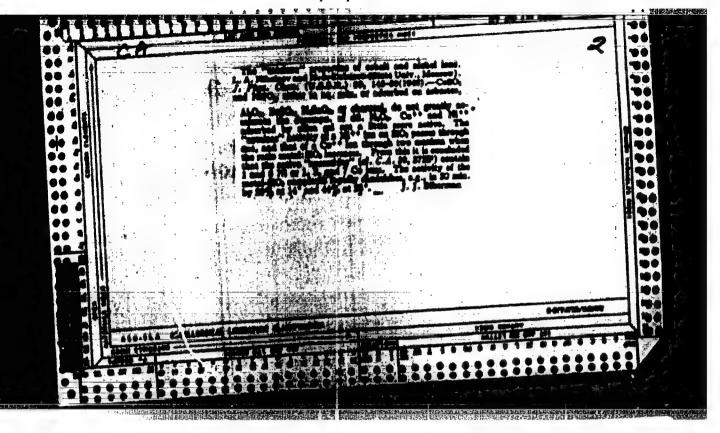


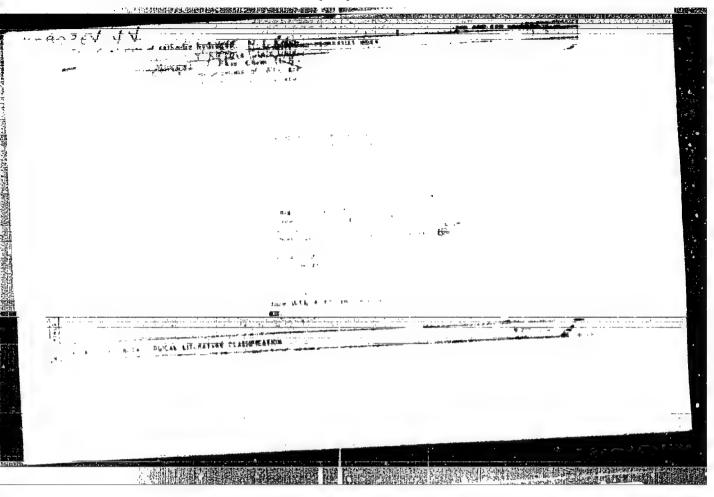


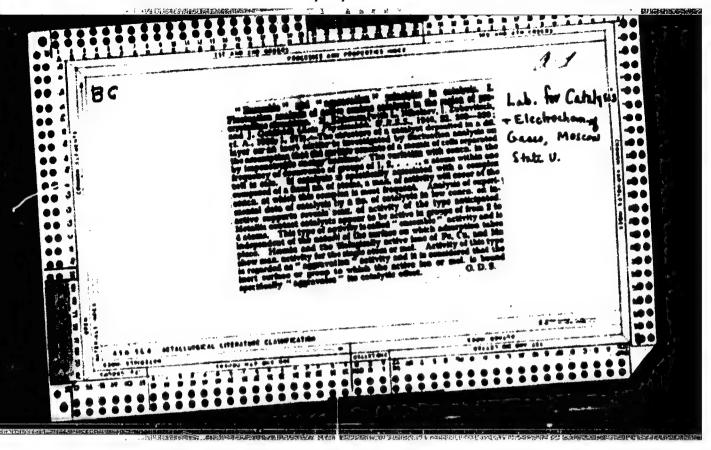


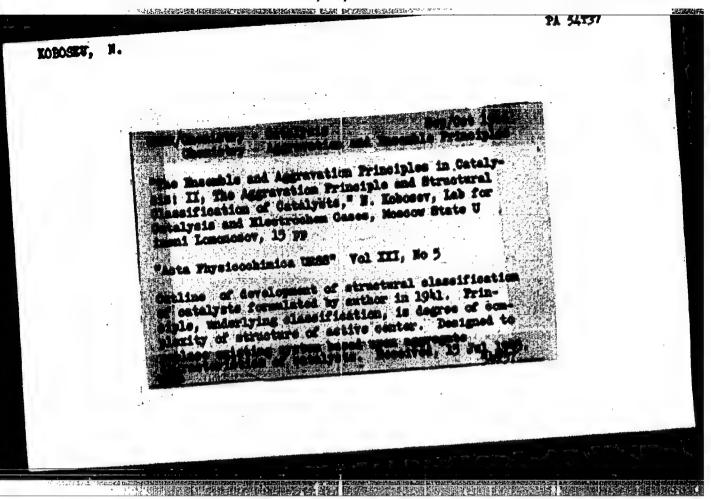


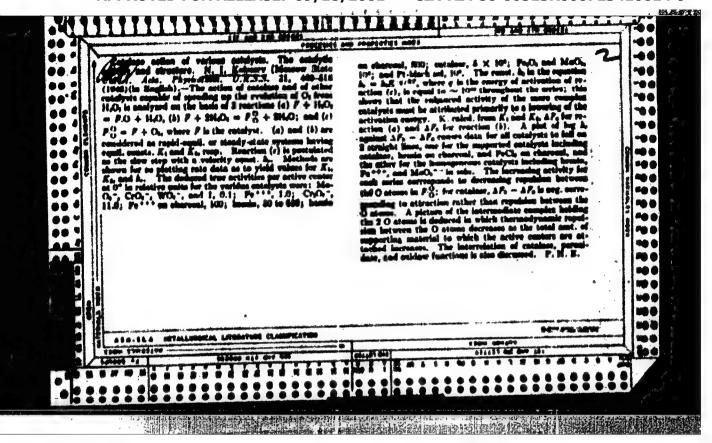


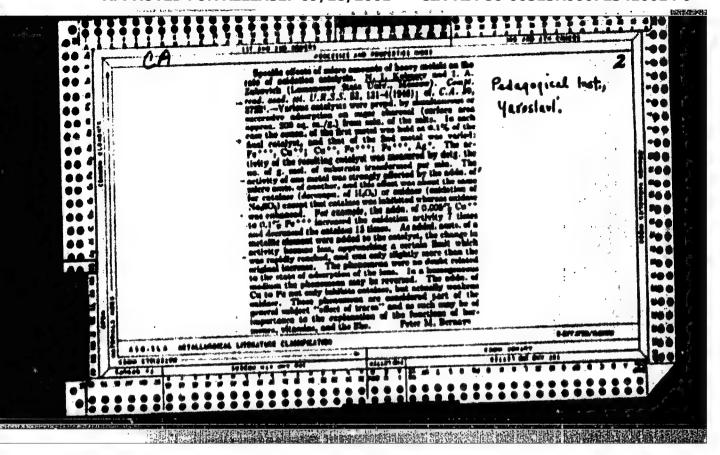


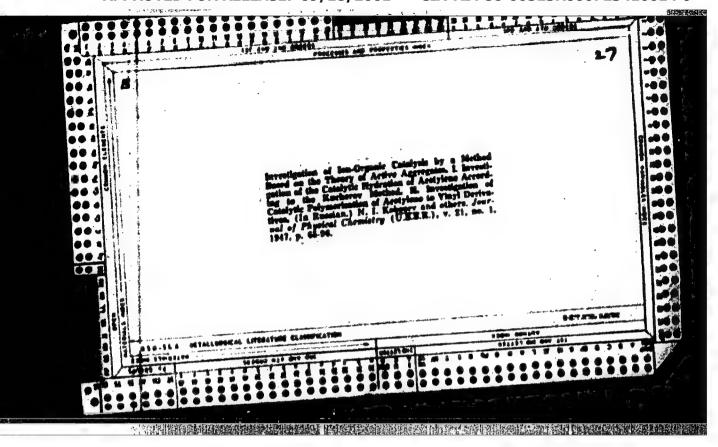


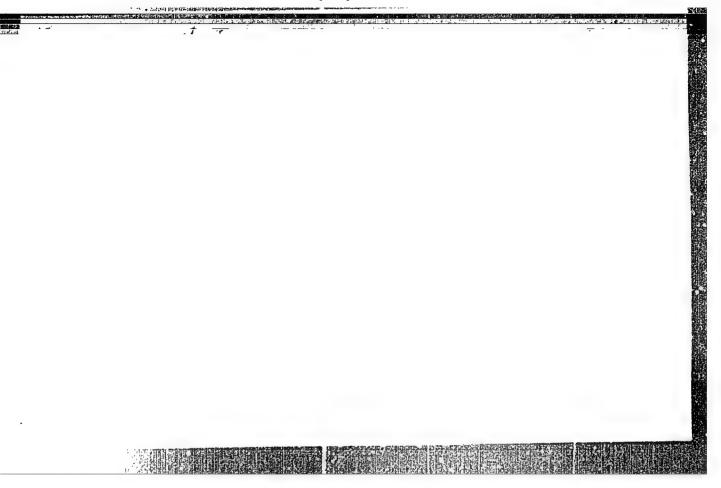


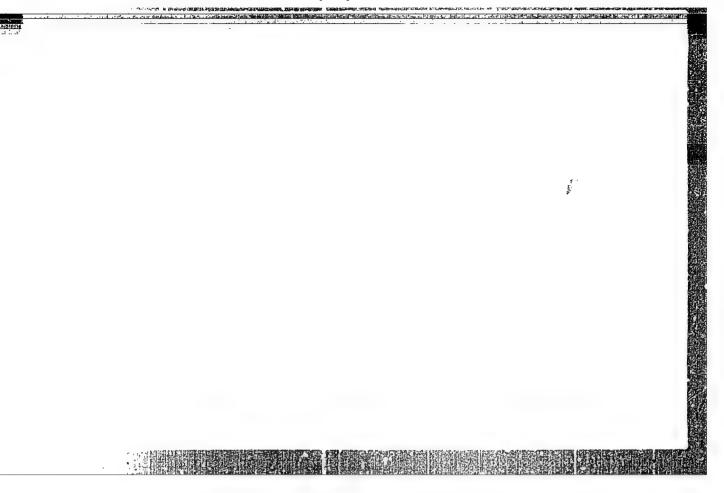


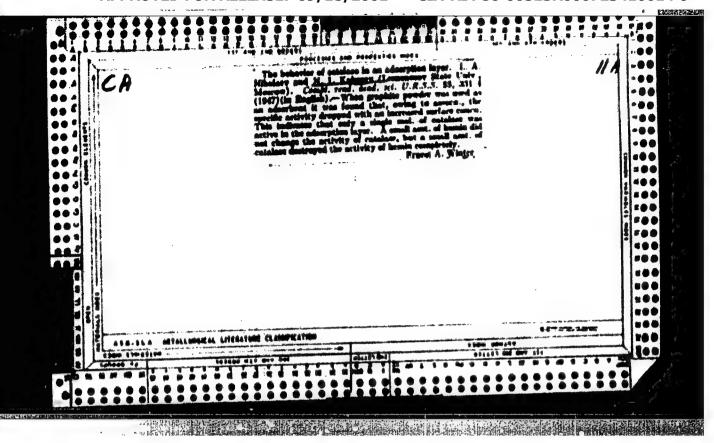


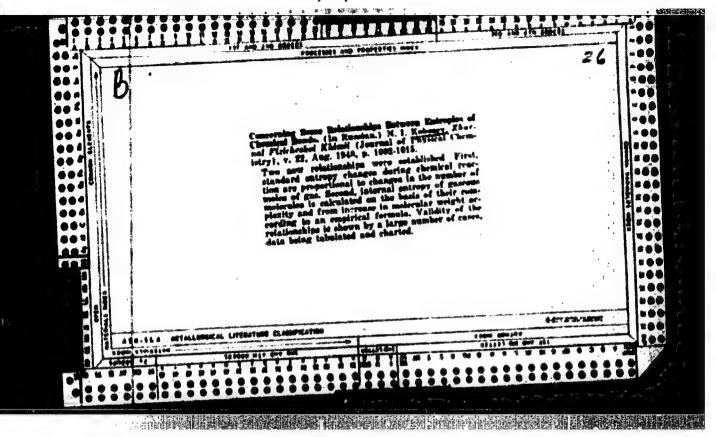












N. I. Kabosev and V. V. Hamblan wa, A letter to the dittor. I. 1911.

Refers to previous sublications by the writers (J. Phys. Ches. (USSR) 20, 653 (1944) and J. Elektrachem. 8, 592 (1930) and letter concerning it by Begotzkii and others (Dokledy Acad. Sci. (UPSR) 53, 5 (1944) and J. Phys. Chem. (UPSR) 21, 241 (1947).

Lab. of Catalysis and Gas Electric emistry
Moscow Lamonosov State University
Chair of Chemistry of the Second Mascow Medical Inst.
June 12, 1940

Journal of Physical Chemistry (USSR) 22, No. 12 (1948)

"APPROVED FOR RELEASE: 09/18/2001

CIA-RDP86-00513R000723410014-9

"Riemants of the Cemeral Theory of Vector-Brownian Processes, and the Laws of Biological Kinematics,"

H. I. Kobolev, 30 pp

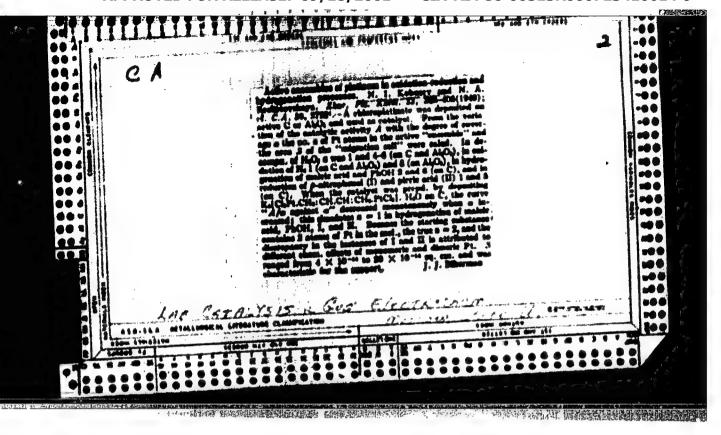
"Byullet Mosk Obshoh Ispyt Pri, Otdel Biolo" Vol LIII, Rol

Describes experiments conducted to solve two problems;

1) relationship between vector and Brownian components in trajectories; and 2) make trajectories "Brownian" by taking vector potential inherent in organisms, in this case insects. Mitors note that this work, in parts, closely follows material published by E.

Brownians in Mile Pools "Life From the Standpoint of Avenue."

(1756)



MUZEV, H. I.

"Structure of Disperse Catalyst and Carriers in the Light of the Theory of Active Combinations," Zhur. Fiz. Khim, 23, No. 12, 1949. Moscow OL St U im M. V. Lomonosov, Lab Catalysis and Gas Electrochem, Moscow. -c1949-.

KOBOZEV, N. I.

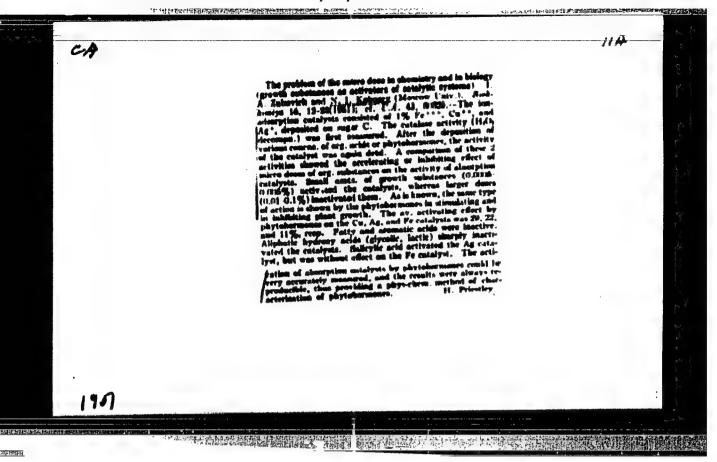
"Synthesis and decomposition of samonis in electrical discharges II.

Sensitized synthemia of amonia in a glow discharge, " Yu. V. Filippov, V. P.

Lebedev, V. V. Zelaman and N. I. Kobozev (Lomonosov State Univ., Moscow). Zhur.

Fiz. Khim, 24, 1009-15 (1950)

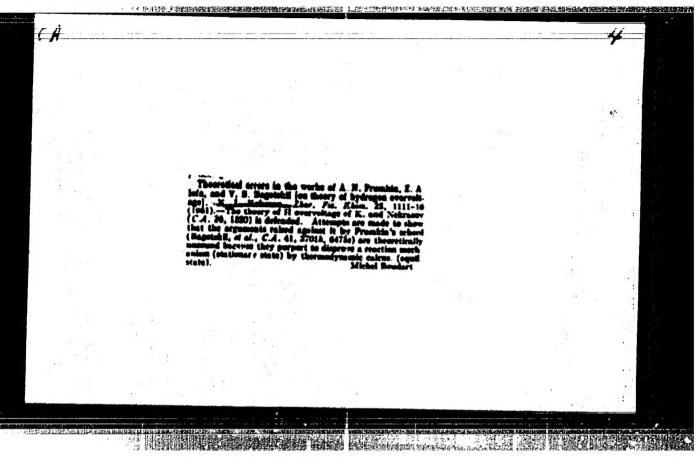
For abstract of article see card for Yu. V. Filippov.



N. I. Kobozev. Some remarks concorning the article by F. V. Jokol'skii and K. I. Stender:
"The role of the carrier in heterogeneous catalysis." F. 375

M. V. Lomonosov Moscow State Univ. Lab. of Catalysis & Gas Electrochem., Cct. 17, 1950

SO: Journal of Physical Chemistry, Vol. 25, No. 3 (Narch 1951)



KOBOZEV. N. I.

Overvoltage

Adsorption theory of hydrogen overvoltage. 1. Overvoltage and energy of W-H bond.

Zhur.fis.khim. 26 no.1. '52.

Honthly List of Russian Accessions, Library of Congress, September 1952. UNCLASSIFIED.

APPROVED FOR RELEASE: 09/18/2001 CIA-RDP86-00513R000723410014-9"

AUBUZEV. N. I.

USSR/Chemistry - Catalysts Jan 52

"Problem of the Paramagnetic State of Catalytically Active Iron Layers (Errors in S. L. Kiperman and M. I. Temkina's Article 'Investigation of the Magnetic properties of Iron-Carbon Catalysts'), " V. B. Evdokimov, I. N. Ozeretskovskiy, N. I. Kobosev, Hoscow State U inemi M. V. Lomonosov

"Zhur Fis Khim" Vol XXVI, No 1, pp 135-144

Sufficiently dil layers of Fe on carbon are completely paramagnetic, i.e., the Fe is atomic rather than cryst. Catalytic activity of ammonia Fe catalysts, etc., is due to atomic "ensembles" rather than Fe or any other element in the cryst state. There is a sharply lowered ferromagnetism in comparison with ordinary iron even in highly concd Fe layers on carbon. Diln of the Fe adsorption layer on carbon leads to a strong increase of paramagnetism due to Fe atoms. The same phenomenon was observed with adsorbed Mi(NO₂)₂. Increase of magnetic susceptibility and ferromagnetism in the samples after oxidation were observed.